

SEQUENCE LISTING

<110> Giesing, Michael

<120> Verfahren zum Untersuchen von Körperflüssigkeiten auf Krebszellen, dessen Verwendung, entsprechende Analysekits und Verwendung bestimmter Wirkstoffe zur Behandlung von Krebs

<130> M-43161-EP

<150> DE 102 38 046.5

<151> 2002-08-20

<160> 22

<170> PatentIn version 3.1

<210> 1

<211> 22

<212> DNA

<213> Artificial Sequence

<220>

<223> forward primer (MNSOD)

<400> 1

gtcaccgagg agaagtacca gg

22

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<211> 20

<212> DNA

<213> Artificial Sequence

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<223> reverse primer (MNSOD)

<400> 2

gggctgaggt ttgtccagaa

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<210> 3

<211> 27

<212> DNA

<213> Artificial Sequence

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<223> probe (MNSOD)

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cgttggccaa gggagatggt acagccc

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<213> Artificial Sequence

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<223> forward primer (TXNRD1)

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ggagggcaga cttcaaaagc tac

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<223> reverse primer (TXNRD1)

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acaaagtcca ggaccatcac ct

22

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<220>
<223> probe (TXNRD1)

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ttgggctgcc tccttagcag ctgcca

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<223> forward primer (GPX1)

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ctcggcttcc cgtgcaa

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tgaagttggg ctcgaaccc

19

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agtttgggca tcaggagaac gccaaagaa

28

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<220>
<223> forward primer (GAPDH)

<400> 10
tgctgatgcc cccatgttc

19

<210> 11
<211> 20
<212> DNA
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<220>
<223> reverse primer (GAPDH)

<400> 11
ggcagtgatg gcatggactg

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<210> 12
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<212> DNA
<213> Artificial Sequence

<220>
<223> probe (GAPDH)

<400> 12
tcaagatcat cagcaatgcc tcctgca

27

<210> 13
<211> 222
<212> PRT
<213> Homo sapiens

<400> 13

Met Leu Ser Arg Ala Val Cys Gly Thr Ser Arg Gln Leu Ala Pro Ala
1 5 10 15

Leu Gly Tyr Leu Gly Ser Arg Gln Lys His Ser Leu Pro Asp Leu Pro
20 25 30

Tyr Asp Tyr Gly Ala Leu Glu Pro His Ile Asn Ala Gln Ile Met Gln
35 40 45

Leu His His Ser Lys His His Ala Ala Tyr Val Asn Asn Leu Asn Val
50 55 60

Thr Glu Glu Lys Tyr Gln Glu Ala Leu Ala Lys Gly Asp Val Thr Ala
65 70 75 80

Gln Thr Ala Leu Gln Pro Ala Leu Lys Phe Asn Gly Gly Gly His Ile

85

90

95

Asn His Ser Ile Phe Trp Thr Asn Leu Ser Pro Asn Gly Gly Gly Glu
 100 105 110

Pro Lys Gly Glu Leu Leu Glu Ala Ile Lys Arg Asp Phe Gly Ser Phe
 115 120 125

Asp Lys Phe Lys Glu Lys Leu Thr Ala Ala Ser Val Gly Val Gln Gly
 130 135 140

Ser Gly Trp Gly Trp Leu Gly Phe Asn Lys Glu Arg Gly His Leu Gln
 145 150 155 160

Ile Ala Ala Cys Pro Asn Gln Asp Pro Leu Gln Gly Thr Thr Gly Leu
 165 170 175

Ile Pro Leu Leu Gly Ile Asp Val Trp Glu His Ala Tyr Tyr Leu Gln
 180 185 190

Tyr Lys Asn Val Arg Pro Asp Tyr Leu Lys Ala Ile Trp Asn Val Ile
 195 200 205

Asn Trp Glu Asn Val Thr Glu Arg Tyr Met Ala Cys Lys Lys
 210 215 220

<210> 14
 <211> 976
 <212> DNA
 <213> Homo sapiens

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 tggtggagaa cccaaagggg agttgctgga agccatcaaa cgtgactttg gttcctttga 480
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 actgcaagga acaacaggcc ttattccact gctggggatt gatgtgtggg agcacgctta 660

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gagtatgtta agctctttat gactgttttt gtagtggtat agagtactgc agaatacagt 840
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<210> 15
<211> 497
<212> PRT
<213> Homo sapiens

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<400> 15

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Met Asn Gly Pro Glu Asp Leu Pro Lys Ser Tyr Asp Tyr Asp Leu Ile
1          5          10          15

```

```

Ile Ile Gly Gly Gly Ser Gly Gly Leu Ala Ala Ala Lys Glu Ala Ala
20          25          30

```

```

Gln Tyr Gly Lys Lys Val Met Val Leu Asp Phe Val Thr Pro Thr Pro
35          40          45

```

```

Leu Gly Thr Arg Trp Gly Leu Gly Gly Thr Cys Val Asn Val Gly Cys
50          55          60

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```

Ile Pro Lys Lys Leu Met His Gln Ala Ala Leu Leu Gly Gln Ala Leu
65          70          75          80

```

```

Gln Asp Ser Arg Asn Tyr Gly Trp Lys Val Glu Glu Thr Val Lys His
85          90          95

```

```

Asp Trp Asp Arg Met Ile Glu Ala Val Gln Asn His Ile Gly Ser Leu
100         105         110

```

```

Asn Trp Gly Tyr Arg Val Ala Leu Arg Glu Lys Lys Val Val Tyr Glu
115         120         125

```

```

Asn Ala Tyr Gly Gln Phe Ile Gly Pro His Arg Ile Lys Ala Thr Asn
130         135         140

```

```

Asn Lys Gly Lys Glu Lys Ile Tyr Ser Ala Glu Ser Phe Leu Ile Ala
145         150         155         160

```

```

Thr Gly Glu Arg Pro Arg Tyr Leu Gly Ile Pro Gly Asp Lys Glu Tyr
165         170         175

```

Cys Ile Ser Ser Asp Asp Leu Phe Ser Leu Pro Tyr Cys Pro Gly Lys
180 185 190

Thr Leu Val Val Gly Ala Ser Tyr Val Ala Leu Glu Cys Ala Gly Phe
195 200 205

Leu Ala Gly Ile Gly Leu Gly Val Thr Val Met Val Arg Ser Ile Leu
210 215 220

Leu Arg Gly Phe Asp Gln Asp Met Ala Asn Lys Ile Gly Glu His Met
225 230 235 240

Glu Glu His Gly Ile Lys Phe Ile Arg Gln Phe Val Pro Ile Lys Val
245 250 255

Glu Gln Ile Glu Ala Gly Thr Pro Gly Arg Leu Arg Val Val Ala Gln
260 265 270

Ser Thr Asn Ser Glu Glu Ile Ile Glu Gly Glu Tyr Asn Thr Val Met
275 280 285

Leu Ala Ile Gly Arg Asp Ala Cys Thr Arg Lys Ile Gly Leu Glu Thr
290 295 300

Val Gly Val Lys Ile Asn Glu Lys Thr Gly Lys Ile Pro Val Thr Asp
305 310 315 320

Glu Glu Gln Thr Asn Val Pro Tyr Ile Tyr Ala Ile Gly Asp Ile Leu
325 330 335

Glu Asp Lys Val Glu Leu Thr Pro Val Ala Ile Gln Ala Gly Arg Leu
340 345 350

Leu Ala Gln Arg Leu Tyr Ala Gly Ser Thr Val Lys Cys Asp Tyr Glu
355 360 365

Asn Val Pro Thr Thr Val Phe Thr Pro Leu Glu Tyr Gly Ala Cys Gly
370 375 380

Leu Ser Glu Glu Lys Ala Val Glu Lys Phe Gly Glu Glu Asn Ile Glu
385 390 395 400

Val Tyr His Ser Tyr Phe Trp Pro Leu Glu Trp Thr Ile Pro Ser Arg
405 410 415

Asp Asn Asn Lys Cys Tyr Ala Lys Ile Ile Cys Asn Thr Lys Asp Asn
420 425 430

Glu Arg Val Val Gly Phe His Val Leu Gly Pro Asn Ala Gly Glu Val
435 440 445

Thr Gln Gly Phe Ala Ala Ala Leu Lys Cys Gly Leu Thr Lys Lys Gln
450 455 460

Leu Asp Ser Thr Ile Gly Ile His Pro Val Cys Ala Glu Val Phe Thr
465 470 475 480

Thr Leu Ser Val Thr Lys Arg Ser Gly Ala Ser Ile Leu Gln Ala Gly
485 490 495

Cys

<210> 16
<211> 1314
<212> DNA
<213> Homo sapiens

<400> 16
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cggcctgccg gcggggacga cagcattgctg cctgggtgca gcagtgtgctg tctcggggaa 180
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tttgtagga caagccctgc aagactctcg aaattatgga tggaaagtcg aggagacagt 720
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taaagttgaa caaattgaag cagggacacc aggccgactc agagtagtag ctcagtcacac 1260
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<210> 17
<211> 201
<212> PRT
<213> Homo sapiens

<400> 17

Met Cys Ala Ala Arg Leu Ala Ala Ala Ala Gln Ser Val Tyr Ala
1 5 10 15

Phe Ser Ala Arg Pro Leu Ala Gly Gly Glu Pro Val Ser Leu Gly Ser
20 25 30

Leu Arg Gly Lys Val Leu Leu Ile Glu Asn Val Ala Ser Leu Cys Gly
35 40 45

Thr Thr Val Arg Asp Tyr Thr Gln Met Asn Glu Leu Gln Arg Arg Leu
50 55 60

Gly Pro Arg Gly Leu Val Val Leu Gly Phe Pro Cys Asn Gln Phe Gly
65 70 75 80

His Gln Glu Asn Ala Lys Asn Glu Glu Ile Leu Asn Ser Leu Lys Tyr
85 90 95

Val Arg Pro Gly Gly Gly Phe Glu Pro Asn Phe Met Leu Phe Glu Lys
100 105 110

Cys Glu Val Asn Gly Ala Gly Ala His Pro Leu Phe Ala Phe Leu Arg
115 120 125

Glu Ala Leu Pro Ala Pro Ser Asp Asp Ala Thr Ala Leu Met Thr Asp
130 135 140

Pro Lys Leu Ile Thr Trp Ser Pro Val Cys Arg Asn Asp Val Ala Trp
145 150 155 160

Asn Phe Glu Lys Phe Leu Val Gly Pro Asp Gly Val Pro Leu Arg Arg
165 170 175

Tyr Ser Arg Arg Phe Gln Thr Ile Asp Ile Glu Pro Asp Ile Glu Ala
180 185 190

Leu Leu Ser Gln Gly Pro Ser Cys Ala
195 200

<210> 18
<211> 856
<212> DNA
<213> Homo sapiens

<400> 18
cttggttcggg ggcgtccgct ggcttcttgg acaattgcgc catgtgtgct gctcggctag 60
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ctgtgagcct gggctccctg cggggcaagg tactacttat cgagaatgtg gcgtccctct 180
gaggcaccac ggtccgggac tacaccaga tgaacgagct gcagcggcgc ctcggaaccc 240
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tcatgctctt cgagaagtgc gaggtgaacg gtgcgggggc gcacctctc ttgccttcc 420
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agtgcggggt gtcagc 856

<210> 19
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> probe (NMSOD)

<400> 19
gaacaacagg ccttattcca ctgctgggga ttgatgtgtg ggagcacgct tactaccttc 60

<210> 20
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> probe (TXNRD1)

<400> 20
cgtgttggtg gctttcacgt actgggtcca aatgctggag aagttacaca aggctttgca 60

<210> 21
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> probe (GPX2)

<400> 21
tacagccgca ccttcccaac catcaacatt gagcctgaca tcaagcgct ccttaaagtt 60

<210> 22
<211> 60
<212> DNA
<213> Artificial Sequence

<220>
<223> probe (GPX3)

<400> 22
ctcttctggg aacccatgaa gggtcacgac atccgctgga actttgagaa gttcctggtg 60